

Atty Dkt. No.: 10004190-1  
USSN: 09/846,058

**AMENDMENTS TO THE CLAIMS**

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Please incorporate the following amendments to the subject application.

**In the Claims:**

1. – 27. (Cancelled)

28. (Currently Amended) A method of fabricating an array of multiple features of different chemical moieties on a surface of a substrate, comprising:

(a) comparing height uniformity of in a first direction and a second direction across a planar surface of a substrate to identify a first direction having higher substrate height uniformity than a second direction, wherein said first and second directions are planar to said substrate; and

(b) employing a pulse jet printer to deposit different chemical moieties in rows on said planar surface of the substrate lengthwise along the direction having the higher height uniformity, wherein said rows each contain a plurality of spatially addressable features containing said different chemical moieties and wherein said rows are more closely aligned with the first direction than the second direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

29. (Previously Presented) A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, comprising:

(a) receiving the substrate from a remote location;

(b) receiving from a remote location an identification that indicates the direction in which the substrate was drawn; and

(c) placing the different chemical moieties on the substrate so as to provide features thereon along rows aligned with said direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

Atty Dkt. No.: 10004190-1  
USSN: 09/846,058

30. (Cancelled)

31. (Previously Presented) The method according to claim 29, wherein the rows are parallel to the direction in which the substrate was drawn.

32 – 34. (Cancelled)

35. (Previously Presented) A method of claim 29, wherein said identification comprises reference to a shape characteristic of the substrate or housing thereof.

36. (Cancelled)

37. (Previously Presented) A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, comprising:

(a) receiving the substrate from a remote location;

(b) receiving from a remote location, an identification of a first direction across the substrate surface along which the substrate surface has a higher height uniformity than along a second direction across the substrate, wherein said first and second directions are planar to said substrate;

(c) placing the different chemical moieties in rows on the substrate, wherein said rows each contain a plurality of different chemical moieties and wherein said rows are more closely aligned with the first direction than the second direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface;

wherein said identification is communicated from said remote location via electronic media.

38. (Previously Presented) A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, comprising:

(a) receiving the substrate from a remote location;

Atty Dkt. No.: 10004190-1  
USSN: 09/846,058

- (b) receiving from a remote location, an identification of a first direction across the substrate surface along which the substrate surface has a higher height uniformity than along a second direction across the substrate, wherein said first and second directions are planar to said substrate;
- (c) placing the different chemical moieties in rows on the substrate, wherein said rows each contain a plurality of different chemical moieties and wherein said rows are more closely aligned with the first direction than the second direction,
- in order to fabricate an array of multiple features of different chemical moieties on a substrate surface;
- wherein said identification is communicated from a computer memory, in response to providing an identifier of the substrate.

39. (Previously Presented) The method of claim 29, wherein said identification is associated with the substrate or packaging thereof.

40. (Previously Presented) The method of claim 29, wherein said identification references a shape characteristic of the substrate or housing thereof.

41. (Previously Presented) The method of claim 29, wherein said identification is associated with the substrate via an identifier on said substrate, or housing thereof.

42. (Previously Presented) The method of claim 29, wherein said identification is communicated from said remote location.

43. (Previously Presented) The method of claim 42, wherein said identification is communicated via electronic media.

44. (Previously Presented) The method of claim 42, wherein said identification is communicated from a computer memory, in response to providing an identifier of the substrate.

Atty Dkt. No.: 10004190-1  
USSN: 09/846,058

**45. (Currently Amended)** A method of fabricating an array of multiple features of different chemical moieties on a surface of a substrate, comprising:

(a) comparing height uniformity ~~of~~ in a first direction and a second direction across a planar surface of a substrate to identify a first direction having higher substrate height uniformity than a second direction, wherein said first and second directions are planar to said substrate; and

(b) placing the different chemical moieties in a row on said planar surface of the substrate lengthwise along the direction having the higher height uniformity so as to provide a row of different chemical moieties that is more closely aligned with the first direction than the second direction, wherein said row contains a plurality of spatially addressable features containing said different chemical moieties,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

**46. (Cancelled)**